Appl. No. 10/697,451
Amdt. Dated April 22, 2008
Reply to Office Action of February 21, 2008

Attorney Docket No. 83394.0018
Customer No.: 26021

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1.   (Currently Amended)   In a planning system that makes plans of electric power generation and electric power trade, a computer implemented method for an electric power generating plan and an electrical power trading plan comprising the steps of:

providing said electric power generating plan and said electrical power trading plan;

determining a stochastic distribution of uncertain factors included in an expected balance generated from said electric power generating plan and said electric power trading plan based on an autoregressive moving average model of price, and

presenting said stochastic distribution of uncertain factors in a time-series form,

wherein said uncertain factors include prediction errors caused by annulment of said electrical power trading plan.

2.   (Original)   The computer implemented method of claim 1, wherein said electric power generating plan and said electric power trading plan are presented in time-series forms.

3.   (Previously Presented):   The computer implemented method of claim 1, wherein said uncertainty factors include variances of electric power demand.

4.   (Previously Presented)   The computer implemented method of claim 1, wherein said uncertainty factors include variances of unit price of fuel to be used for power generators.

\\\LA - 083394/000018 - 377502 v1

5.   (Previously Presented)   The computer implemented method of claim 1, wherein said uncertainty factors include variances of unit price of electric power to be traded.

6.   (Currently Amended)   In a planning system that makes plans of electric power generation and electric power trade, a computer implemented method for an electric power generating plan and an electrical power trading plan comprising the steps of:

determining a stochastic distribution of uncertain factors included in an expected balance generated from said electric power generating plan and said electric power trading plan based on an autoregressive moving average model of price, and

presenting said stochastic distribution of uncertain factors in a time-series form,

wherein said electric power generating plan and the electric power trading plan and said stochastic distribution are presented in a first chart that gives a time axis for an axis, and generator power output and contracted electric power for the other axis, the first chart including an interruption term of power supply regarding to maintenance inspection and a term of output restriction, and in a second chart that gives a time axis for an axis and expected values and variances of said stochastic distribution for another axis.

7. (Original) The computer implemented method of claim 6 comprising the steps of:

receiving designation of an area of blocks where power generator output is presented in said first chart thereof, and

presenting power generation volume, and power generator start-stop term, in-date output pattern and information of price variation of said fuel to be used.

8.   (Original) The computer implemented method of claim 6 comprising the

steps of:

receiving a designation of an area of blocks where an interruption term of power supply regarding to a maintenance inspection term and a restriction term of generator output is presented in said first step thereof, and

presenting said interruption term of power supply regarding to maintenance inspection, said restriction term of generator output or a generator output to be suppressed.

9.   (Previously Presented)   The computer implemented method of claim 6 comprising the steps of:

receiving designation of an area of blocks where in-trade electric power is presented in said first chart thereof, and

presenting trade unit price, trade volume and in-date supply pattern.

10.   (Original)   The computer implemented method of claim 6 comprising the steps of:

receiving designation of an area of blocks where in-trade electric power is presented thereof, and

presenting expected values and variances of both unit price and volume of electric power to be traded for a term that said designation appoints.

11.   (Original) The computer implemented method of claim 6 comprising the steps of:

receiving a term to be specified in said time axis,

receiving a selection of an expanded scale or an shrunk scale of date or time zone of said term to be presented, and

presenting a chart composed on a time axis defined in said expanded scale or said shrunk scale.

Appl. No. 10/697,451
Amdt. Dated April 22, 2008
Reply to Office Action of February 21, 2008

Attorney Docket No. 83394.0018
Customer No.: 26021

12. (Original) The computer implemented method of claim 6 comprising the steps of:

receiving said generator output, a term to be specified in said time axis, said interruption term of power supply regarding to maintenance inspection, said term of output restriction and

determining a new said stochastic distribution, and

presenting the said new stochastic distribution in a time-series form.

13. (Currently Amended) In a planning method for computer equipment that makes electric power generating plan and electric power trading plan, said method comprising the steps of:

determining a stochastic distribution due to uncertain factors regarding to a balance caused by electric power generation and electric power trade based on an autoregressive moving average model of price, and

presenting said stochastic distribution in a time-series form,

wherein said uncertain factors are prediction errors caused by annulment of the electric power trading plan.

14. (Currently Amended) In a computer readable recording medium to store a computer program that has a function for planning computer equipment that makes electric power generating plan and electric power trading plan, said computer program comprising the steps of:

determining a stochastic distribution due to uncertain factors regarding to a balance caused by electric power generation and electric power trade based on an autoregressive moving average model of price, and

presenting said stochastic distribution in a time-series form,

wherein said uncertain factors are prediction errors caused by annulment of the electric power trading plan.

15.   (Canceled)

16.   (New) The computer implemented method of claim 1,
wherein the autoregressive moving average model is according to the equation:

$$dSt - \alpha(t) (\mu(\tau)\text{-}St) + \sigma(t)d\omega$$

where St = ln Pt: logarithmic price at the time τ;

  $\alpha(t)$: regression velocity;

  $\mu(\tau)$: average logarithmic price;

  $\sigma(t)$: volatility;

  ω: erroneous variation defined in Gaussian distribution

  d: differentiation operator.